COMPLETE LISTING OF ALL CLAIMS, WITH MARKINGS AND STATUS IDENTIFIERS
(Currently amended claims showing deletions ~~by strikethrough~~ and additions by underlining)

1 - 3 (canceled)

4 (withdrawn): A method of selectively binding a PTH2 receptor which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 1 or a pharmaceutically-acceptable salt thereof.

5 (withdrawn): A method of selectively eliciting an agonist response from the PTH2 receptor which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 2 or a pharmaceutically acceptable salt thereof.

6 (withdrawn): A method of selectively eliciting an antagonist response from the PTH2 receptor which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 3 or a pharmaceutically acceptable salt thereof.

7 (canceled): An analogue according to claim 1 wherein said analogue is of formula (I),

$$(R^1R^2)\text{-}A^1\text{-}A^2\text{-}A^3\text{-}A^4\text{-}A^5\text{-}A^6\text{-}A^7\text{-}A^8\text{-}A^9\text{-}A^{10}\text{-}A^{11}\text{-}A^{12}\text{-}A^{13}\text{-}A^{14}\text{-}A^{15}\text{-}A^{16}\text{-}A^{17}\text{-}A^{18}\text{-}A^{19}\text{-}A^{20}\text{-}A^{21}\text{-}A^{22}\text{-}A^{23}\text{-}A^{24}\text{-}A^{25}\text{-}A^{26}\text{-}A^{27}\text{-}A^{28}\text{-}A^{29}\text{-}A^{30}\text{-}A^{31}\text{-}A^{32}\text{-}A^{33}\text{-}A^{34}\text{-}A^{35}\text{-}A^{36}\text{-}A^{37}\text{-}A^{38}\text{-}R^3,$$

(I)

or a pharmaceutically-acceptable salt thereof wherein

A^1 is a hydrophilic or a lipophilic amino acid;

A^2 is a lipophilic amino acid;

A^3 is a hydrophilic or a lipophilic amino acid;

A^4 is a hydrophilic amino acid;

A^5 is a hydrophilic or a lipophilic amino acid;

A^6 is a hydrophilic amino acid or is deleted;

A^7 is a hydrophilic or a lipophilic amino acid or is deleted;

A^8 is a lipophilic amino acid or is deleted;

A^9 is a hydrophilic amino acid or is deleted;

A^{10} is a hydrophilic amino acid or is deleted;

A^{11} is a hydrophilic or a lipophilic amino acid or is deleted;
A^{12} is a hydrophilic or a lipophilic amino acid or is deleted;
A^{13} is a hydrophilic amino acid;
A^{14} is a hydrophilic amino acid or is deleted;
A^{15} is a lipophilic amino acid or is deleted;
A^{16} is a hydrophilic or a lipophilic amino acid or is deleted;
A^{17} is a hydrophilic or a lipophilic amino acid or is deleted;
A^{18} is a lipophilic amino acid or is deleted;
A^{19} is a hydrophilic or a lipophilic amino acid or is deleted;
A^{20} is a hydrophilic amino acid or is deleted;
A^{21} is a hydrophilic or a lipophilic amino acid or is deleted;
A^{22} is a lipophilic or a hydrophilic amino acid or is deleted;
A^{23} is a hydrophilic or a lipophilic amino acid;
A^{24} is a hydrophilic or a lipophilic amino acid;
A^{25} is a hydrophilic amino acid;
A^{26} is a hydrophilic amino acid;
A^{27} is a lipophilic or a hydrophilic amino acid;
A^{28} is a lipophilic amino acid;
A^{29} is a lipophilic or a hydrophilic amino acid;
A^{30} is a hydrophilic or a lipophilic amino acid;
A^{31} is a lipophilic or a hydrophilic amino acid or is deleted;
A^{32} is a hydrophilic amino acid or is deleted;
A^{33} is a hydrophilic amino acid or is deleted;
A^{34} is a lipophilic amino acid or is deleted;
A^{35} is a lipophilic amino acid or is deleted;
A^{36} is a lipophilic or a hydrophilic amino acid or is deleted;
A^{37} is a lipophilic amino acid or is deleted;
A^{38} is a lipophilic or a hydrophilic amino acid or is deleted;

R^1 and R^2 are each independently selected from the group consisting of H, $(C_1\text{-}C_{30})$alkyl, $(C_2\text{-}C_{30})$alkenyl, phenyl-$(C_1\text{-}C_{30})$alkyl, naphthyl$(C_1\text{-}C_{30})$alkyl, hydroxy$(C_1\text{-}C_{30})$alkyl, hydroxy$(C_2\text{-}C_{30})$alkenyl, hydroxy-phenyl$(C_1\text{-}C_{30})$alkyl or hydroxy-naphthyl$(C_1\text{-}C_{30})$alkyl;

or one of R^1 or R^2 is COE^1 where E^1 is (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, phenyl(C_1-C_{30})alkyl, naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxy-phenyl(C_1-C_{30})alkyl or hydroxy-naphthyl(C_1-C_{30})alkyl; and

R^3 is OH, NH_2, (C_1-C_{30})alkoxy or NH-Y-CH_2-Z, where Y is a (C_1-C_{30}) hydrocarbon moiety and Z is CO_2H or $CONH_2$;

provided that the compound is not PTH(1-34)R^3 (SEQ ID NO:4), PTH(1-35)R^3 (SEQ ID NO:5), PTH(1-36)R^3 (SEQ ID NO:6), PTH(1-37)R^3 (SEQ ID NO:7), or PTH(1-38)R^3 (SEQ ID NO:8).

8 (withdrawn): A method of selectively binding a PTH2 receptor which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 7 or a pharmaceutically-acceptable salt thereof.

9 (currently amended): ~~An~~ A human PTH analogue or a truncated human PTH analogue according to ~~claim 1 of~~ the following formula ~~(II)~~,

(R^1R^2)-A^1-A^2-A^3-A^4-A^5-A^6-A^7-A^8-A^9-A^{10}-A^{11}-A^{12}-A^{13}-A^{14}-A^{15}-A^{16}-A^{17}-A^{18}-A^{19}-A^{20}-A^{21}-A^{22}-A^{23}-A^{24}-A^{25}-A^{26}-A^{27}-A^{28}-A^{29}-A^{30}-A^{31}-A^{32}-A^{33}-A^{34}-A^{35}-A^{36}-A^{37}-A^{38}-R^3,

~~(II)~~

which selectively bind to the PTH2 receptor, or ~~a~~ pharmaceutically-acceptable ~~salt~~ salts thereof, wherein

A^1 is Ser, Ala, Dap, Thr, Aib or is deleted;

A^2 is Val, Leu, Ile, Phe, Nle, ß-Nal, Aib, p-X-Phe, Acc, Cha, Met or is deleted;

A^3 is Ser, Thr, Aib or is deleted;

A^4 is Glu, Asp or is deleted;

A^5 is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe or is deleted;

A^6 is Gln, a hydrophilic amino acid or is deleted;

A^7 is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, a lipophilic amino acid, or is deleted;

A^8 is Met, Nva, Leu, Val, Ile, Cha, Acc, Nle, p-X-Phe, Phe, ß-Nal, Bpa, a lipophilic amino acid or is deleted;

A^9 is His, a hydrophilic amino acid or is deleted;

A^{10} is Asn, a hydrophilic amino acid or is deleted;

A^{11} is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, a hydrophilic amino acid or is deleted;

A^{12} is Gly, Acc, Aib, or is deleted;

A^{13} is Lys, Arg or HN-CH($(CH_2)_n$NH-R^4)-C(O);

A^{14} is His or is deleted;

A^{15} is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe or is deleted;

A^{16} is Ser, Asn, Ala, Aib or is deleted;

A^{17} is Ser, Thr, Aib or is deleted;

A^{18} is Met, Nva, Leu, Val, Ile, Nle, p-X-Phe, Phe, ß-Nal, Acc, Cha, Aib or is deleted;

A^{19} is Glu, Aib or is deleted;

A^{20} is Arg, Lys, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{21} is Val, Leu, Ile, Phe, Nle, ß-Nal, Aib, p-X-Phe, Acc, Cha, Met or is deleted;

A^{22} is Acc, Aib, Glu or is deleted;

A^{23} is Trp, Acc, Phe, p-X-Phe, Aib, ß-Nal or Cha;

A^{24} is Leu, Acc, Ile, Val, Phe, ß-Nal, Nle, Aib, p-X-Phe or Cha;

A^{25} is Arg, Lys or HN-CH($(CH_2)_n$NH-R^4)-C(O);

A^{26} is Arg, Lys or HN-CH($(CH_2)_n$NH-R^4)-C(O);

A^{27} is Lys, Aib, Leu, hArg, Gln, Acc, Arg, Cha, Nle, Ile, Val, Phe, ß-Nal, or p-X-Phe, where the Lys is optionally substituted on the ε-amino group by an acyl group;

A^{28} is Leu, Acc, Cha, Ile, Val, Phe, Nle, ß-Nal, Aib or p-X-Phe;

A^{29} is Gln, Acc or Aib;

A^{30} is Asp, Lys, Arg or is deleted;

A^{31} is Val, Leu, Nle, Acc, Cha, Phe, Ile, ß-Nal Aib, p-X-Phe or is deleted;

A^{32} is His or is deleted;

A^{33} is Asn or is deleted;

A^{34} is Phe, Tyr, Amp, Aib, ß-Nal, Cha, Nle, Leu, Ile, Acc, p-X-Phe or is deleted;

A^{35} is Val, Leu, Nle, Acc, Cha, Phe, Ile, ß-Nal Aib, p-X-Phe or is deleted;

A^{36} is Ala, Val, Aib, Acc, Nva, Abu or is deleted;

A^{37} is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, a lipophilic amino acid, or is deleted;

A^{38} is Gly, Acc, Aib, or is deleted;

where X for each occurrence is independently selected from the group consisting of OH, a halo and CH_3;

R^1 and R^2 are each independently selected from the group consisting of H, (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, phenyl-(C_1-C_{30})alkyl, naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxy-phenyl(C_1-C_{30})alkyl ~~or~~ and hydroxy-naphthyl(C_1-C_{30})alkyl;

or one of R^1 or R^2 is COE^1 where E^1 is (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, phenyl(C_1-C_{30})alkyl, naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxy-phenyl(C_1-C_{30})alkyl or hydroxy-naphthyl(C_1-C_{30})alkyl; and

R^3 is OH, NH_2, (C_1-C_{30})alkoxy or NH-Y-CH_2-Z, where Y is a (C_1-C_{30}) hydrocarbon moiety and Z is CO_2H or $CONH_2$;

n for each occurrence is independently an integer from 1 to 5; and

R^4 for each occurrence is independently (C_1-C_{30})alkyl, (C_1-C_{30})acyl or -C((NH)(NH_2));

provided that ~~the compound~~ said human PTH analogue, said truncated human PTH analogue or said pharmaceutically-acceptable salts thereof ~~is~~ are not PTH(1-34)R^3 (SEQ ID NO:4), PTH(1-35)R^3 (SEQ ID NO:5), PTH(1-36)R^3 (SEQ ID NO:6), PTH(1-37)R^3 (SEQ ID NO:7), or PTH(1-38)R^3 (SEQ ID NO:8).

10 (currently amended): A ~~compound~~ human PTH analogue or a truncated human PTH analogue of the formula ~~(III)~~,

(R^1R^2)-A^1-A^2-A^3-A^4-A^5-A^6-A^7-A^8-A^9-A^{10}-A^{11}-A^{12}-A^{13}-A^{14}-A^{15}-A^{16}-A^{17}-A^{18}-A^{19}-A^{20}-A^{21}-A^{22}-A^{23}-A^{24}-A^{25}-A^{26}-A^{27}-A^{28}-A^{29}-A^{30}-A^{31}-A^{32}-A^{33}-A^{34}-A^{35}-A^{36}-A^{37}-A^{38}-R^3,

~~(III)~~

which selectively bind to the PTH2 receptor, or ~~a~~ pharmaceutically-acceptable ~~salt~~ salts thereof, wherein

A^1 is Ser, Ala, Dap, Thr, Aib or is deleted;

A^2 is Val, Leu, Ile, Phe, Nle, ß-Nal, Aib, p-X-Phe, Acc, Cha, Met or is deleted;

A^3 is Ser, Thr, Aib or is deleted;

A^4 is Glu, Asp or is deleted;

A^5 is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe or is deleted;

A^6 is Gln, a hydrophilic amino acid or is deleted;

A^7 is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, a lipophilic amino acid, or is deleted;

A^8 is Met, Nva, Leu, Val, Ile, Cha, Acc, Nle, p-X-Phe, Phe, ß-Nal, Bpa, a lipophilic amino acid or is deleted;

A^9 is His, a hydrophilic amino acid or is deleted;

A^{10} is Asn, a hydrophilic amino acid or is deleted;

A^{11} is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, a hydrophilic amino acid or is deleted;

A^{12} is Gly, Acc, Aib, or is deleted;

A^{13} is Lys, Arg or HN-CH($(CH_2)_n$NH-R^4)-C(O);

A^{14} is His or is deleted;

A^{15} is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe or is deleted;

A^{16} is Ser, Asn, Ala, Aib or is deleted;

A^{17} is Ser, Thr, Aib or is deleted;

A^{18} is Met, Nva, Leu, Val, Ile, Nle, p-X-Phe, Phe, ß-Nal, Acc, Cha, Aib or is deleted;

A^{19} is Glu, Aib or is deleted;

A^{20} is Arg, Lys, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{21} is Val, Leu, Ile, Phe, Nle, ß-Nal, Aib, p-X-Phe, Acc, Cha, Met or is deleted;

A^{22} is Acc, Aib, Glu or is deleted;

A^{23} is Trp, Acc, Phe, p-X-Phe, Aib, ß-Nal or Cha;

A^{24} is Leu, Acc, Ile, Val, Phe, ß-Nal, Nle, Aib, p-X-Phe or Cha;

A^{25} is Arg, Lys or HN-CH($(CH_2)_n$NH-R^4)-C(O);

A^{26} is Arg, Lys or HN-CH($(CH_2)_n$NH-R^4)-C(O);

A^{27} is Lys, Aib, Leu, hArg, Gln, Acc, Arg, Cha, Nle, Ile, Val, Phe, ß-Nal, or p-X-Phe, where the Lys is optionally substituted on the ε-amino group by an acyl group;

A^{28} is Leu, Acc, Cha, Ile, Val, Phe, Nle, ß-Nal, Aib or p-X-Phe;

A^{29} is Gln, Acc or Aib;

A^{30} is Asp, Lys, Arg or is deleted;

A^{31} is Val, Leu, Nle, Acc, Cha, Phe, Ile, ß-Nal Aib, p-X-Phe or is deleted;

A^{32} is His or is deleted;

A^{33} is Asn or is deleted;

A^{34} is Phe, Tyr, Amp, Aib, ß-Nal, Cha, Nle, Leu, Ile, Acc, p-X-Phe or is deleted;

A^{35} is Val, Leu, Nle, Acc, Cha, Phe, Ile, ß-Nal, Aib, p-X-Phe or is deleted;

A^{36} is Ala, Val, Aib, Acc, Nva, Abu or is deleted;

A^{37} is Leu, Val, Nle, Ile, Cha, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, a lipophilic amino acid, or is deleted;

A^{38} is Gly, Acc, Aib, or is deleted;

where X for each occurrence is independently selected from the group consisting of OH, a halo and CH_3;

R^1 and R^2 are each independently selected from the group consisting of H, (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, phenyl-(C_1-C_{30})alkyl, naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxy-phenyl(C_1-C_{30})alkyl ~~or~~ and hydroxy-naphthyl(C_1-C_{30})alkyl;

or one of R^1 or R^2 is COE^1 where E^1 is (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, phenyl(C_1-C_{30})alkyl, naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxy-phenyl(C_1-C_{30})alkyl or hydroxy-naphthyl(C_1-C_{30})alkyl; and

R^3 is OH, NH_2, (C_1-C_{30})alkoxy or NH-Y-CH_2-Z, where Y is a (C_1-C_{30}) hydrocarbon moiety and Z is CO_2H or $CONH_2$;

n for each occurrence is independently an integer from 1 to 5; and

R^4 for each occurrence is independently (C_1-C_{30})alkyl, (C_1-C_{30})acyl or -C((NH)(NH_2));

provided that when A^8 is not a lipophilic D-amino acid or is not deleted then at least one of A^6, A^7, A^9, A^{10}, A^{11} and A^{12} is a D-amino acid or at least one of A^6, A^7, A^9, A^{10}, A^{11}, A^{12}, A^{13}, A^{14}, A^{15}, A^{16}, A^{17}, A^{18}, A^{19}, A^{20}, A^{21} and A^{22} is deleted;

and further provided that when ~~the compound~~ said human PTH analogue, said truncated human PTH analogue or said pharmaceutically-acceptable salts thereof ~~contains~~ contain a D-amino acid, then A^{36} is deleted.

11 (withdrawn): A compound according to claim 10 wherein said compound is

[D-Nle^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Nle^8]hPTH(1-34)NH_2,

[D-Leu^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Cha^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Phe^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Nal^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Abu^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Met^8]hPTH(1-34)NH_2,

[$Cha^{7,11}$, D-Met^8]hPTH(1-34)NH_2,

[D-Ile^8]hPTH(1-34)NH_2,

[$Cha^{7,11}$, D-Ile^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Ile^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Leu^{8}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Leu^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Val^{8}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Val^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Val^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Cha^{8}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Cha^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Ala^{8}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Ala^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Ala^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Phe^{8}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Phe^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Nal^{8}]hPTH(1-34)NH_2,

[D-Trp^{8}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Trp^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Trp^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Abu^{8}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Abu^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Nle^{8}, Nle^{18}]hPTH(1-34)NH_2,

[des-Met^{8}]hPTH(1-34)NH_2 (SEQ ID NO:18),

[Cha^{7,11}, des-Met^{8}]hPTH(1-34)NH_2 (SEQ ID NO:19),

[Cha^{7,11}, des-Met^{8}, des-Met^{18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:20),

[des-Met^{8}, des-Met^{18}]hPTH(1-34)NH_2 (SEQ ID NO:21),

[Cha^{7,11}, des-Met^{8}, des-Met^{18}]hPTH(1-34)NH_2 (SEQ ID NO:22),

[des-Met^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:23),

[des-Met^{18}]hPTH(1-34)NH_2 (SEQ ID NO:24),

[Cha^{7,11}, des-Met^{18}]hPTH(1-34)NH_2 (SEQ ID NO:25),

[Cha^{7,11}, des-Met^{18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:26),

[D-Nle^{8}, des-Met^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[des-Gln^{6}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:27),

[des-Leu^{7}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:28),

[des-His^{9}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:29),

[des-Asn^{10}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:30),

[des-Leu^{11}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:31),

[des-Gly^{12}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:32),

[des-Lys^{13}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:33),

[des-His^{14}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:34),

[des-Leu^{15}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:35),

[des-Asn^{16}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:36),

[des-Ser^{17}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:37),

[des-Glu^{19}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:38),

[des-Arg^{20}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:39),

[des-Val^{21}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:40),

[des-Glu^{22}, Nle ^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:41),

[des-Gln^{6}, Cha^{7,11}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:42),

[des-Leu^{7}, Nle^{8,18}, Cha^{11}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:43),

[Cha^{7,11}, des-His^{9}, Nle^{8,18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:44),

[des-Gln^{6}, Cha^{7,11}, D-Nle^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[des-Leu^{7}, D-Nle^{8}, Cha^{11}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Nle^{8}, des-His^{9}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[Cha^{7,11}, D-Nle^{8}, Nle^{18}, Tyr^{34}]hPTH(1-31)NH_2,

[Cha^{7,11}, des-Met^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:16),

[Cha^{7,11}, D-Nle^{8}, des-Met^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[Cha^{7,11}, des-Met^{8}, des-His^{9}, des-Asn^{10}]hPTH(1-34)NH_2 (SEQ ID NO:45),

[Cha^{7,11}, des-Ser^{17}, des-Met^{18}, des-Glu^{19}]hPTH(1-34)NH_2 (SEQ ID NO:46),

[D-Met^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Met^{8}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Bpa^{8}, Tyr^{34}]hPTH(1-34)NH_2,

[D-Nle^{8}, Nle^{18}, Tyr^{34}]hPTH(7-34)NH_2,

[D-Nle^{8}, Nle^{18}]hPTH(7-34)NH_2 or

[D-Met^{8}]hPTH(7-34)NH_2.

12 (withdrawn): A compound according to claim 11 wherein said compound is

[Cha^{7,11}, des-Met^{8}, Nle^{18}, Tyr^{34}]hPTH-(1-34)NH_2 (SEQ ID NO:16),

[Cha^{7,11}, D-Nle^{8}, des-Met^{18}, Tyr^{34}]hPTH-(1-34)NH_2,

[Cha^{7,11}, D-Nle^{8}, Nle^{18}, Tyr^{34}]hPTH-(1-34)NH_2,

[D-Nle^8, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2 or [D-Bpa^8, Tyr^{34}]hPTH(1-34)NH_2.

13 (currently amended): A human PTHrP analogue or a truncated human PTHrP analogue according to the following ~~of~~ formula ~~(IV) that selectively binds to the PTH2 receptor~~,

(R^1R^2)-A^1-A^2-A^3-A^4-A^5-A^6-A^7-A^8-A^9-A^{10}-A^{11}-A^{12}-A^{13}-A^{14}-A^{15}-A^{16}-A^{17}-A^{18}-A^{19}-A^{20}-A^{21}-A^{22}-A^{23}-A^{24}-A^{25}-A^{26}-A^{27}-A^{28}-A^{29}-A^{30}-A^{31}-A^{32}-A^{33}-A^{34}-A^{35}-A^{36}-A^{37}-A^{38}-R^3,

~~(IV)~~

which selectively bind to the PTH2 receptor, or ~~a~~ pharmaceutically acceptable ~~salt~~ salts thereof, wherein

A^1 is Ala, Ser, Dap, Thr, Aib or is deleted;

A^2 is Val or is deleted;

A^3 is Ser, Aib, Thr or is deleted;

A^4 is Glu, Asp or is deleted;

A^5 is His, Ile, Acc, Val, Nle, Phe, Leu, p-X-Phe, ß-Nal, Aib, Cha or is deleted;

A^6 is Gln, a hydrophilic amino acid or is deleted;

A^7 is Leu, Val, Cha, Nle, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, Aib, a lipophilic amino acid or is deleted;

A^8 is Leu, Met, Acc, Cha, Aib, Nle, Phe, Ile, Val, ß-Nal, p-X-Phe, a lipophilic amino acid or is deleted;

A^9 is His, a hydrophilic amino acid or is deleted;

A^{10} is Asp, Asn, a hydrophilic amino acid or is deleted;

A^{11} is Lys, Arg, Leu, Cha, Aib, p-X-Phe, Ile, Val, Nle, Acc, Phe, ß-Nal, HN-CH($(CH_2)_n$NH-R^4)-C(O), a lipophilic D-amino acid, a hydrophilic amino acid or is deleted;

A^{12} is Gly, Acc, Aib or is deleted;

A^{13} is Lys, Arg, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{14} is Ser, His or is deleted;

A^{15} is Ile, Acc, Cha, Leu, Phe, Nle, ß-Nal, Trp, p-X-Phe, Val, Aib or is deleted;

A^{16} is Gln, Aib or is deleted;

A^{17} is Asp, Aib or is deleted;

A^{18} is Leu, Aib, Acc, Cha, Phe, Ile, Nle, ß-Nal, Val, p-X-Phe or is deleted;

A^{19} is Arg, Lys, Aib, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{20} is Arg, Lys, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{21} is Arg, Lys, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{22} is Phe, Glu, Aib, Acc, p-X-Phe, ß-Nal, Val, Leu, Ile, Nle or Cha;

A^{23} is Phe, Leu, Lys, Acc, Cha, ß-Nal, Aib, Nle, Ile, p-X-Phe, Val or Trp;

A^{24} is Leu, Lys, Acc, Nle, Ile, Val, Phe, ß-Nal, Aib, p-X-Phe, Arg or Cha;

A^{25} is His, Lys, Aib, Acc, Arg or Glu;

A^{26} is His, Aib, Acc, Arg or Lys;

A^{27} is Leu, Lys, Acc, Arg, Ile, Val, Phe, Aib, Nle, ß-Nal, p-X-Phe or Cha;

A^{28} is Ile, Leu, Lys, Acc, Cha, Val, Phe, p-X-Phe, Nle, ß-Nal, Aib or is deleted;

A^{29} is Ala, Glu, Acc, Aib or is deleted;

A^{30} is Glu, Leu, Nle, Cha, Aib, Acc, Lys, Arg or is deleted;

A^{31} is Ile, Leu, Cha, Lys, Acc, Phe, Val, Nle, ß-Nal, Arg or is deleted;

A^{32} is His or is deleted;

A^{33} is Thr, Ser or is deleted;

A^{34} is Ala, Phe, Tyr, Cha, Val, Ile, Leu, Nle, ß-Nal, Aib, Acc or is deleted;

A^{35} is Glu, Asp or is deleted;

A^{36} is Ile, Acc, Cha, Leu, Phe, Nle, ß-Nal, Trp, p-X-Phe, Val, Aib or is deleted;

A^{37} is Arg, Lys, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{38} is Ala, Phe, Tyr, Cha, Val, Ile, Leu, Nle, ß-Nal, Aib, Acc or is deleted;

R^1 and R^2 are each independently selected from the group consisting of H, (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl,

phenyl-(C_1-C_{30})alkyl, naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxy-phenyl(C_1-C_{30})alkyl ~~or~~ and hydroxy-naphthyl(C_1-C_{30})alkyl;

or one of R^1 or R^2 is COE^1 where E^1 is (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, phenyl(C_1-C_{30})alkyl, naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxy-phenyl(C_1-C_{30})alkyl or hydroxy-naphthyl(C_1-C_{30})alkyl; and

R^3 is OH, NH_2, (C_1-C_{30})alkoxy or NH-Y-CH_2-Z, where Y is a (C_1-C_{30}) hydrocarbon moiety and Z is CO_2H or $CONH_2$;

n for each occurrence is independently an integer from 1 to 5; and

R^4 for each occurrence is independently (C_1-C_{30})alkyl, (C_1-C_{30})acyl or -C((NH)(NH_2));

provided that ~~the compound~~ said human PTHrP analogue, said truncated human PTHrP analogue or said pharmaceutically acceptable salts thereof ~~is~~ are not PTHrP(1-34)R^3 (SEQ ID NO:9), PTHrP(1-35)R^3 (SEQ ID NO:10), PTHrP(1-36)R^3 (SEQ ID NO:11), PTHrP(1-37)R^3 (SED ID NO:12) or PTHrP(1-38)R^3 (SEQ ID NO:13), and further provided that ~~the compound~~ said human PTHrP analogue, said truncated human PTHrP analogue or said pharmaceutically acceptable salts thereof ~~is~~ are not [Ile^5, Trp^{23}]PTHrP(1-36)(SEQ ID NO:14) or [Trp^{23}]PTHrP(1-36)(SEQ ID NO:15).

14 (currently amended): A ~~compound~~ human PTHrP analogue or a truncated human PTHrP analogue ~~of~~ according to the following formula ~~(V)~~,

(R^1R^2)-A^1-A^2-A^3-A^4-A^5-A^6-A^7-A^8-A^9-A^{10}-A^{11}-A^{12}-A^{13}-A^{14}-A^{15}-A^{16}-A^{17}-A^{18}-A^{19}-A^{20}-A^{21}-A^{22}-A^{23}-A^{24}-A^{25}-A^{26}-A^{27}-A^{28}-A^{29}-A^{30}-A^{31}-A^{32}-A^{33}-A^{34}-A^{35}-A^{36}-A^{37}-A^{38}-R^3,

~~(V)~~

which selectively bind to the PTH2 receptor, or ~~a~~ pharmaceutically acceptable ~~salt~~ salts thereof, wherein

A^1 is Ala, Ser, Dap, Thr, Aib or is deleted;

A^2 is Val or is deleted;

A^3 is Ser, Aib, Thr or is deleted;

A^4 is Glu, Asp or is deleted;

A^5 is His, Ile, Acc, Val, Nle, Phe, Leu, p-X-Phe, ß-Nal, Aib, Cha or is deleted;

A^6 is Gln, a hydrophilic amino acid or is deleted;

A^7 is Leu, Val, Cha, Nle, ß-Nal, Trp, Pal, Acc, Phe, p-X-Phe, Aib, a lipophilic amino acid or is deleted;

A^8 is Leu, Met, Acc, Cha, Aib, Nle, Phe, Ile, Val, ß-Nal, p-X-Phe, a lipophilic amino acid or is deleted;

A^9 is His, a hydrophilic amino acid or is deleted;

A^{10} is Asp, Asn, a hydrophilic amino acid or is deleted;

A^{11} is Lys, Arg, Leu, Cha, Aib, p-X-Phe, Ile, Val, Nle, Acc, Phe, ß-Nal, HN-CH($(CH_2)_n$NH-R^4)-C(O), a lipophilic D-amino acid, a hydrophilic amino acid or is deleted;

A^{12} is Gly, Acc, Aib or is deleted;

A^{13} is Lys, Arg, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{14} is Ser, His or is deleted;

A^{15} is Ile, Acc, Cha, Leu, Phe, Nle, ß-Nal, Trp, p-X-Phe, Val, Aib or is deleted;

A^{16} is Gln, Aib or is deleted;

A^{17} is Asp, Aib or is deleted;

A^{18} is Leu, Aib, Acc, Cha, Phe, Ile, Nle, ß-Nal, Val, p-X-Phe or is deleted;

A^{19} is Arg, Lys, Aib, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{20} is Arg, Lys, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{21} is Arg, Lys, HN-CH($(CH_2)_n$NH-R^4)-C(O) or is deleted;

A^{22} is Phe, Glu, Aib, Acc, p-X-Phe, ß-Nal, Val, Leu, Ile, Nle or Cha;

A^{23} is Phe, Leu, Lys, Acc, Cha, ß-Nal, Aib, Nle, Ile, p-X-Phe, Val or Trp;

A^{24} is Leu, Lys, Acc, Nle, Ile, Val, Phe, ß-Nal, Aib, p-X-Phe, Arg or Cha;

A^{25} is His, Lys, Aib, Acc, Arg or Glu;

A^{26} is His, Aib, Acc, Arg or Lys;

A^{27} is Leu, Lys, Acc, Arg, Ile, Val, Phe, Aib, Nle, ß-Nal, p-X-Phe or Cha;

A^{28} is Ile, Leu, Lys, Acc, Cha, Val, Phe, p-X-Phe, Nle, ß-Nal, Aib or is deleted;

A^{29} is Ala, Glu, Acc, Aib or is deleted;

A^{30} is Glu, Leu, Nle, Cha, Aib, Acc, Lys, Arg or is deleted;

A^{31} is Ile, Leu, Cha, Lys, Acc, Phe, Val, Nle, ß-Nal, Arg or is deleted;

A^{32} is His or is deleted;

A^{33} is Thr, Ser or is deleted;

A^{34} is Ala, Phe, Tyr, Cha, Val, Ile, Leu, Nle, ß-Nal, Aib, Acc or is deleted;

A^{35} is Glu, Asp or is deleted;

A^{36} is Ile, Acc, Cha, Leu, Phe, Nle, ß-Nal, Trp, p-X-Phe, Val, Aib or is deleted;

A^{37} is Arg, Lys, $HN\text{-}CH((CH_2)_nNH\text{-}R^4)\text{-}C(O)$ or is deleted;

A^{38} is Ala, Phe, Tyr, Cha, Val, Ile, Leu, Nle, ß-Nal, Aib, Acc or is deleted;

R^1 and R^2 are each independently selected from the group consisting of H, $(C_1\text{-}C_{30})$alkyl, $(C_2\text{-}C_{30})$alkenyl, phenyl-$(C_1\text{-}C_{30})$alkyl, naphthyl$(C_1\text{-}C_{30})$alkyl, hydroxy$(C_1\text{-}C_{30})$alkyl, hydroxy$(C_2\text{-}C_{30})$alkenyl, hydroxy-phenyl$(C_1\text{-}C_{30})$alkyl ~~or~~ and hydroxy-naphthyl$(C_1\text{-}C_{30})$alkyl;

or one of R^1 or R^2 is COE^1 where E^1 is $(C_1\text{-}C_{30})$alkyl, $(C_2\text{-}C_{30})$alkenyl, phenyl$(C_1\text{-}C_{30})$alkyl, naphthyl$(C_1\text{-}C_{30})$alkyl, hydroxy$(C_1\text{-}C_{30})$alkyl, hydroxy$(C_2\text{-}C_{30})$alkenyl, hydroxy-phenyl$(C_1\text{-}C_{30})$alkyl or hydroxy-naphthyl$(C_1\text{-}C_{30})$alkyl; and

R^3 is OH, NH_2, $(C_1\text{-}C_{30})$alkoxy or $NH\text{-}Y\text{-}CH_2\text{-}Z$, where Y is a $(C_1\text{-}C_{30})$ hydrocarbon moiety and Z is CO_2H or $CONH_2$;

n for each occurrence is independently an integer from 1 to 5; and

R^4 for each occurrence is independently $(C_1\text{-}C_{30})$alkyl, $(C_1\text{-}C_{30})$acyl or -C((NH)(NH_2));

provided that when A^8 is not a lipophilic D-amino acid or is not deleted then at least one of A^6, A^7, A^9, A^{10}, A^{11} and A^{12} is a D-amino acid or at least one of A^6, A^7, A^9, A^{10}, A^{11}, A^{12}, A^{13}, A^{14}, A^{15}, A^{16}, A^{17}, A^{18}, A^{19}, A^{20}, A^{21} and A^{22} is deleted.

15 (withdrawn): A compound according to claim 14 wherein said compound is

[Ile^5, D-Leu^8]hPTHrP(1-34)NH_2,

[Ile^5, D-Leu^8, Trp^{23}]hPTHrP(1-34)NH_2,

[Ile^5, des-Leu^8, Trp^{23}]hPTHrP(1-34)NH_2 (SEQ ID NO:47),

[Ile^5, des-Leu^8]hPTHrP(1-34)NH_2 (SEQ ID NO:48),

[des-Leu^8, Trp^{23}]hPTHrP(1-34)NH_2 (SEQ ID NO:49),

[Ile^5, des-Leu^{18}]hPTHrP(1-34)NH_2 (SEQ ID NO:50),

[Ile^5, des-Leu^{18}, Trp^{23}]hPTHrP(1-34)NH_2 (SEQ ID NO:51),

[des-Leu^{18}, Trp^{23}]hPTHrP(1-34)NH_2 (SEQ ID NO:52),

[Ile^5, D-Leu^8, Glu^{22,25}, Leu^{23,28,31}, Lys^{26,30}, Aib^{29}]hPTHrP(1-34)NH_2,

[Ile^5, D-Leu^8, Glu^{22,25}, Trp^{23}, Lys^{26,30}, Leu^{28,31}, Aib^{29}]hPTHrP(1-34)NH_2,

[Ile^5, D-Leu^8, Glu^{22,25,29}, Leu^{23,28,31}, Lys^{26,30}]hPTHrP(1-34)NH_2,

[Ile^5, D-Leu^8, Glu^{22,25,29}, Trp^{23}, Lys^{26,30}, Leu^{28,31}]hPTHrP(1-34)NH_2 or

[D-Leu^8, Trp^{23}]hPTHrP(7-34)NH_2.

16 (withdrawn): A method of selectively binding the PTH2 receptor which comprises administering to a patient in need thereof an analogue according to claim 9 or a pharmaceutically acceptable salt thereof.

17 (withdrawn): A method of selectively binding the PTH2 receptor which comprises administering to a patient in need thereof a compound according to claim 10 or a pharmaceutically acceptable salt thereof.

18 (withdrawn): A method of selectively binding the PTH2 receptor which comprises administering to a patient in need thereof a compound according to claim 11 or a pharmaceutically acceptable salt thereof.

19 (withdrawn): A method of selectively binding a PTH2 receptor which comprises administering to a patient in need thereof a compound according to claim 12 or a pharmaceutically acceptable salt thereof.

20 (withdrawn): A method of selectively binding a PTH2 receptor which comprises administering to a patient in need thereof an analogue according to claim 13 or a pharmaceutically acceptable salt thereof.

21 (withdrawn): A method of selectively binding a PTH2 receptor which comprises administering to a patient in need thereof a compound according to claim 14 or a pharmaceutically acceptable salt thereof.

22 (withdrawn): A method of selectively binding a PTH2 receptor which comprises administering to a patient in need thereof a compound according to claim 15 or a pharmaceutically acceptable salt thereof.

23 (original): A pharmaceutical composition comprising an analogue according to claim 9 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

24 (original): A pharmaceutical composition comprising a compound according to claim 10 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

25 (withdrawn): A pharmaceutical composition comprising a compound according to claim 11 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

26 (withdrawn): A pharmaceutical composition comprising a compound according to claim 12 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

27 (original): A pharmaceutical composition comprising an analogue according to claim 13 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

28 (original): A pharmaceutical composition comprising a compound according to claim 14 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

29 (withdrawn): A pharmaceutical composition comprising a compound according to claim 15 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

30 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 7, sufficient to inhibit the activation of the PTH2 receptor of said patient.

31 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 9, sufficient to inhibit the activation of the PTH2 receptor of said patient.

32 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of a compound according to claim 10,

sufficient to inhibit the activation of the PTH2 receptor of said patient.

33 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of a compound according to claim 11, sufficient to inhibit the activation of the PTH2 receptor of said patient.

34 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of a compound according to claim 12, sufficient to inhibit the activation of the PTH2 receptor of said patient.

35 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 13, sufficient to inhibit the activation of the PTH2 receptor of said patient.

36 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of a compound according to claim 14, sufficient to inhibit the activation of the PTH2 receptor of said patient.

37 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of a compound according to claim 15, sufficient to inhibit the activation of the PTH2 receptor of said patient.

38 (withdrawn): A method according to claim 30 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

39 (withdrawn): A method according to claim 31 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

40 (withdrawn): A method according to claim 32 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

41 (withdrawn): A method according to claim 33 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

42 (withdrawn): A method according to claim 34 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

43 (withdrawn): A method according to claim 35 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

44 (withdrawn): A method according to claim 36 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism

and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

45 (withdrawn): A method according to claim 37 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

46 (withdrawn): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of a PTH analogue or a truncated PTH analogue or a pharmaceutically acceptable salt thereof according to claim 1, sufficient to inhibit the activation of the PTH2 receptor of said patient.

47 (withdrawn): A method according to claim 46 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalmic disease.

48 (new): A compound according to claim 10 wherein said compound is [$Cha^{7,11}$, des-Met^{8}, Nle^{18}, Tyr^{34}]hPTH(1-34)NH_2 (SEQ ID NO:16).

49 (new): A pharmaceutical composition comprising an analogue according to claim 48 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.